

FIG.1

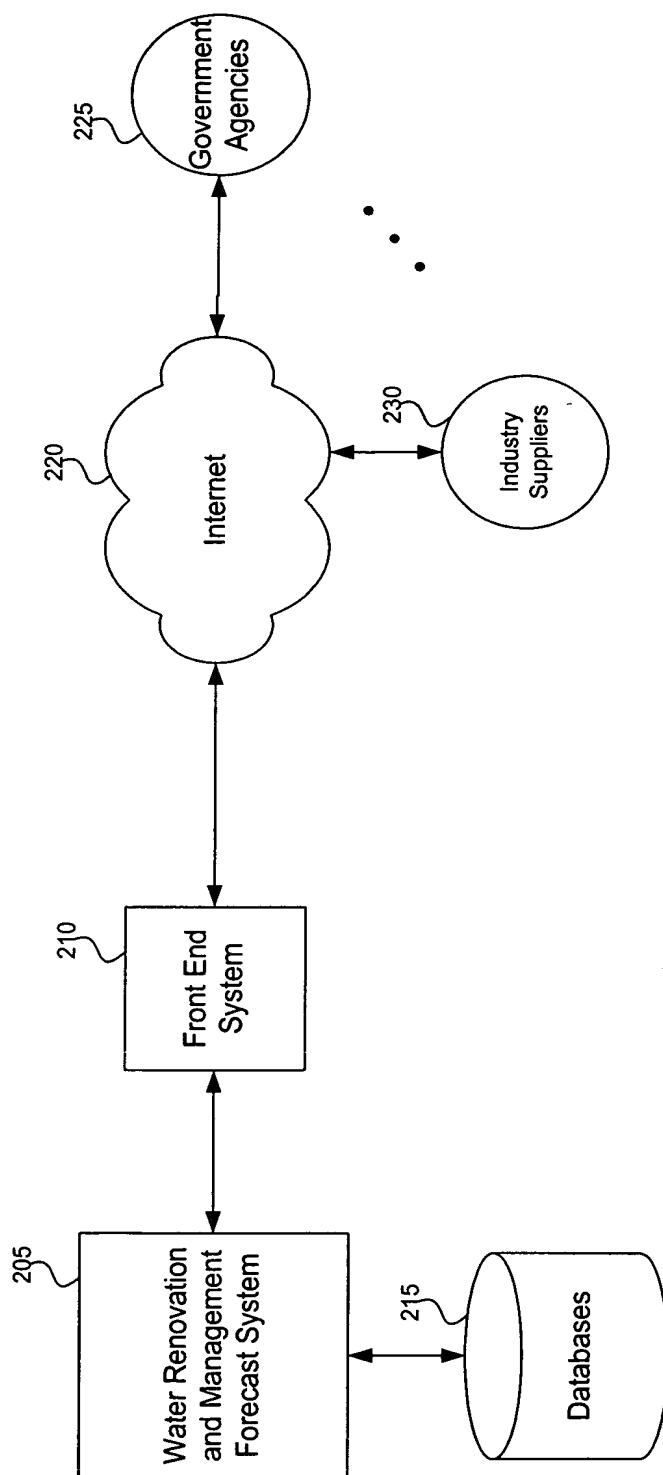


FIG. 2

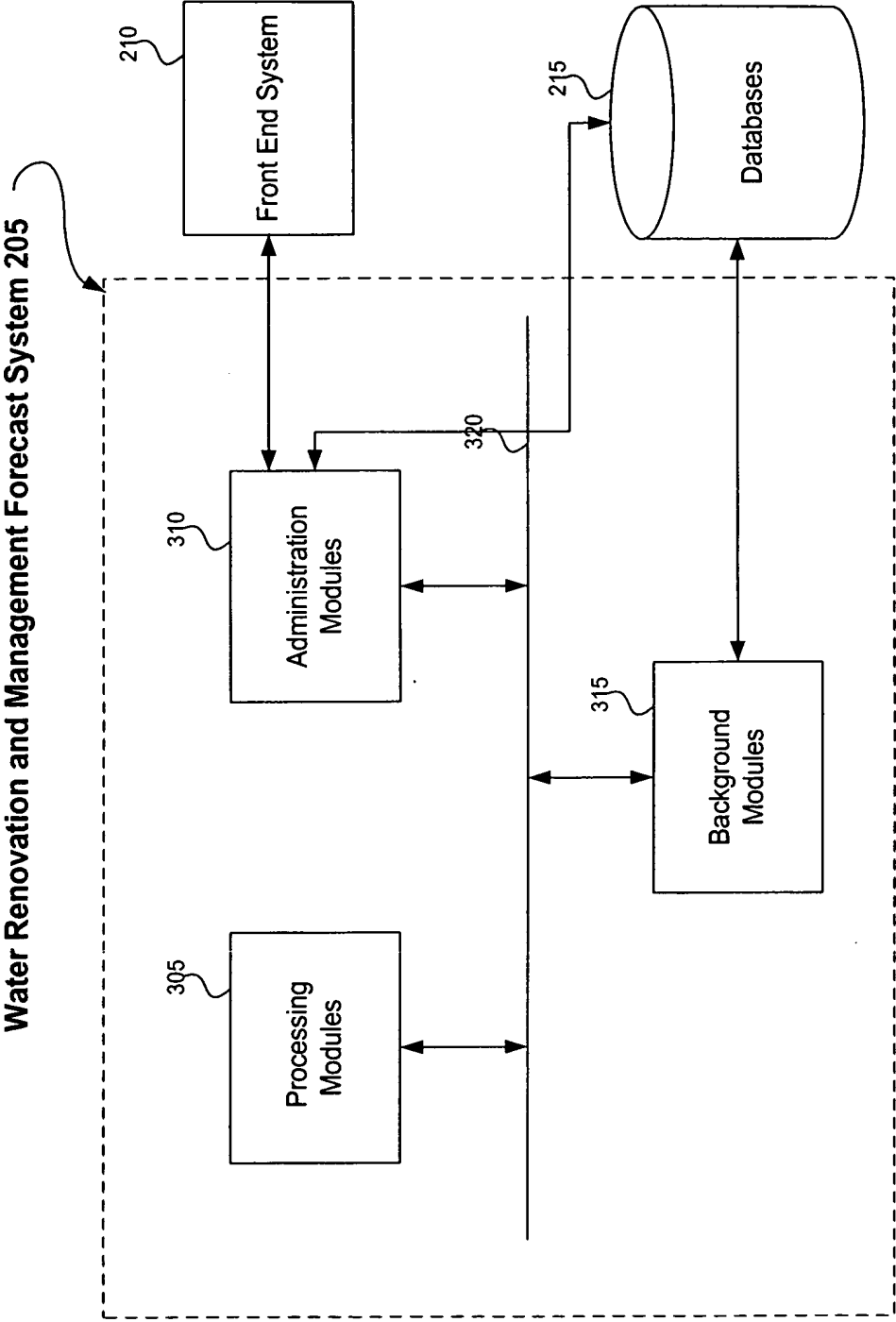


FIG. 3

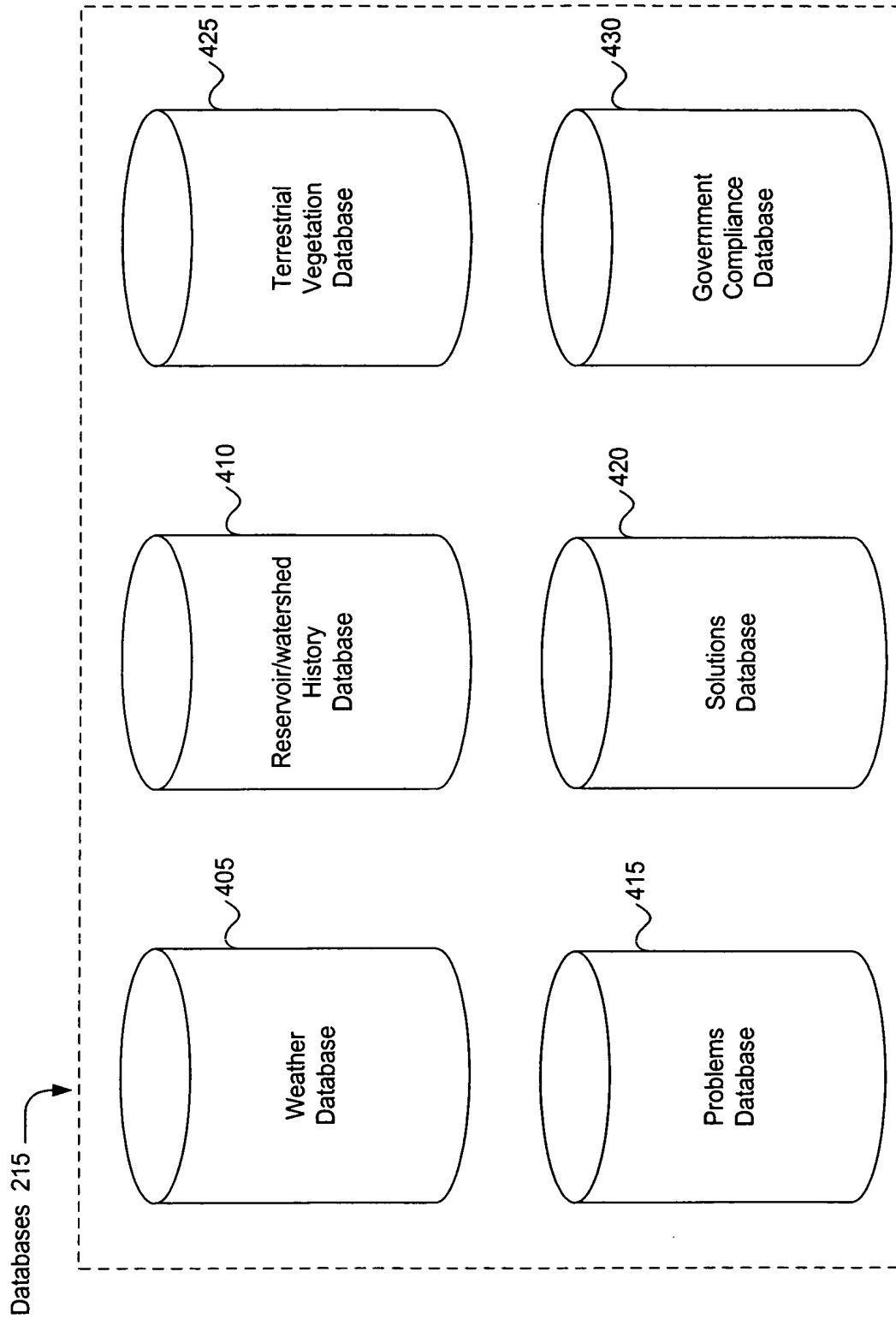
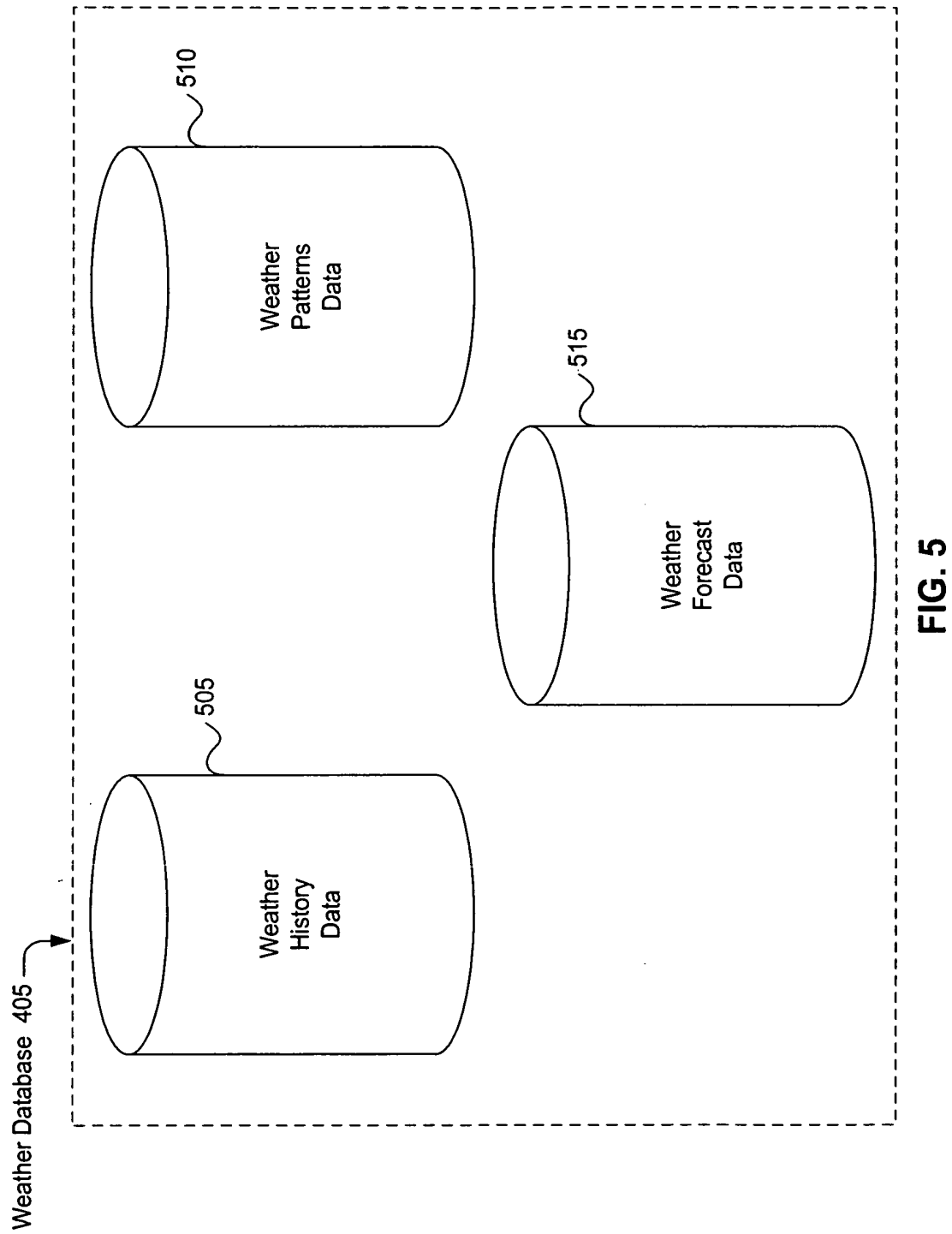


FIG. 4



Weather History Data 505

Year	MA	Data Type	Period1	Period2	Period3	Period4	Period5	Period6
:	:	:	:	:	:	:	:	:
1997	MA100	temp.sea	46	47	50	51	49	47
1998	MA100	temp.sea	46	47	49	51	50	48
1997	MA100	prec.sea	1.01	1.03	1.08	1.1	1.12	1.1
1998	MA100	prec.sea	1.01	1.03	1.07	1.1	1.12	1.1
1997	MA100	wind_speed.sea	17	15	5	7	10	14
1998	MA100	wind_speed.sea	16	15	4	7	10	13
1997	MA100	solar_radiation.sea	3.4	4.1	4.2	5.5	4.3	3.8
1998	MA100	solar_radiation.sea	3.4	4.0	4.2	5.4	4.0	3.7
1997	MA100	cloud_cover.sea	75	75	25	25	25	75
1998	MA100	cloud_cover.sea	75	75	25	25	25	75
1997	MA100	cooling_rate.sea	0.2	0.3	0.2	0.2	0.2	0.1
1998	MA100	cooling_rate.sea	0.3	0.3	0.2	0.2	0.2	0.2
1997	MA100	growing_degree_days.sea	24	25	25	21	19	16
1998	MA100	growing_degree_days.sea	24	26	25	21	19	16
:	:	:	:	:	:	:	:	:

FIG. 6A

Weather History Data 505

Year	MA	Data Type	Period1	Period2	Period3	Period4	Period5	Period6
1997	MA100	temp	49	43	45	47	50	42
1998	MA100	temp	53	51	56	50	58	54
1997	MA100	prec	1.5	0.4	0.9	1.3	1.7	0.3
1998	MA100	prec	1.1	0.01	2.68	1.78	0.48	0.01
1997	MA100	wind_speed	15	14	5	7	16	20
1998	MA100	wind_speed	12	15	10	8	18	21
1997	MA100	solar_radiation	3.0	4.1	4.0	5.2	4.3	4.0
1998	MA100	solar_radiation.sea	3.4	4.0	4.5	5.4	4.0	3.7
1997	MA100	cloud_cover	100	75	25	25	25	0
1998	MA100	cloud_cover	75	75	25	25	25	25
1997	MA100	cooling_rate	0.3	0.3	0.2	0.2	0.2	0.1
1998	MA100	cooling_rate	0.3	0.3	0.2	0.2	0.2	0.2
1997	MA100	growing_degree_days	26	27	25	25	19	16
1998	MA100	growing_degree_days	23	26	25	20	19	15
:	:	:	:	:	:	:	:	:
:	:	:	:	:	:	:	:	:

FIG. 6B

Weather History Data 505

Year	MA	Data Type	Period1	Period2	Period3	Period4	Period5	Period6
1997	MA100	temp.cat	1	-1	-1	-1	1	-1
1998	MA100	temp.cat	1	1	1	-1	1	1
1997	MA100	prec.cat	1	-1	-1	1	1	-1
1998	MA100	prec.cat	1	-1	1	1	-1	-1
1997	MA100	wind_speed.cat	-1	-1	0	0	1	1
1998	MA100	wind_speed.cat	-1	0	1	1	1	1
1997	MA100	solar_radiation.cat	-1	0	-1	-1	0	1
1998	MA100	solar_radiation.cat	0	0	-1	0	0	0
1997	MA100	cloud_cover.cat	1	0	0	0	0	-1
1998	MA100	cloud_cover.cat	0	0	0	0	0	-1
1997	MA100	cooling_rate.cat	1	0	0	0	0	0
1998	MA100	cooling_rate.cat	0	0	0	0	0	0
1997	MA100	growing_degree_days.cat	1	1	0	1	0	0
1998	MA100	growing_degree_days.cat	-1	0	0	-1	0	-1
:	:	:	:	:	:	:	:	:

FIG. 6C

Weather Patterns Data 510

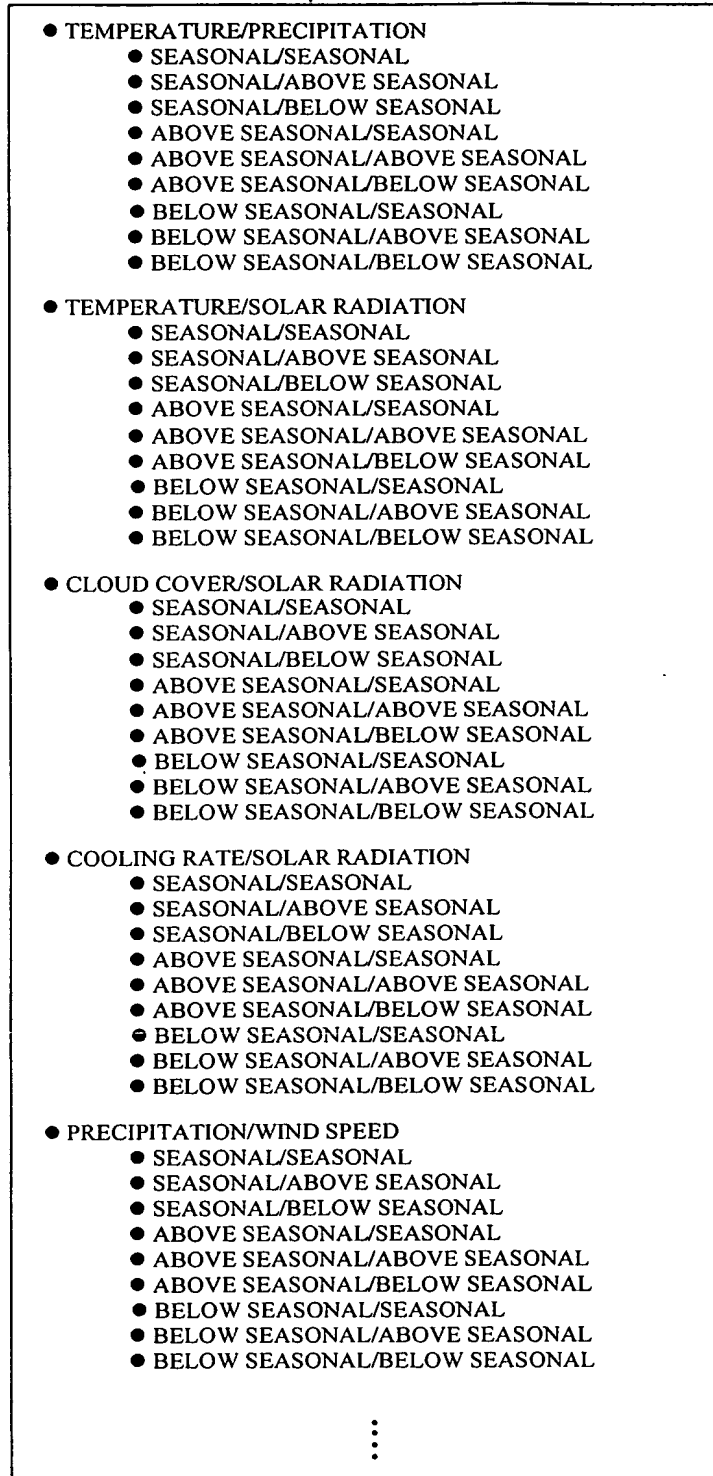


FIG. 7A

Weather Patterns Data 510



- SUSTAINED WEATHER
 - TEMPERATURE SUSTAINED 2 PERIODS
 - TEMPERATURE SUSTAINED 3 PERIODS
 - PRECIPITATION SUSTAINED 2 PERIODS
 - PRECIPITATION SUSTAINED 3 PERIODS
 - WIND SPEED SUSTAINED 2 PERIODS
 - WIND SPEED SUSTAINED 3 PERIODS
 - SOLAR RADIATION SUSTAINED 2 PERIODS
 - SOLAR RADIATION SUSTAINED 3 PERIODS
 - CLOUD COVER SUSTAINED 2 PERIODS
 - CLOUD COVER SUSTAINED 3 PERIODS
 - COOLING RATE SUSTAINED 2 PERIODS
 - COOLING RATE SUSTAINED 3 PERIODS
 - GROWING DEGREE DAYS SUSTAINED 2 PERIODS
 - GROWING DEGREE DAYS SUSTAINED 3 PERIODS
- TEMPERATURE/PRECIPITATION LAG 1 PERIOD
 - SEASONAL/SEASONAL
 - SEASONAL/ABOVE SEASONAL
 - SEASONAL/BELOW SEASONAL
 - ABOVE SEASONAL/SEASONAL
 - ABOVE SEASONAL/ABOVE SEASONAL
 - ABOVE SEASONAL/BELOW SEASONAL
 - BELOW SEASONAL/SEASONAL
 - BELOW SEASONAL/ABOVE SEASONAL
 - BELOW SEASONAL/BELOW SEASONAL
- TEMPERATURE/SOLAR RADIATION LAG 1 PERIOD
 - SEASONAL/SEASONAL
 - SEASONAL/ABOVE SEASONAL
 - SEASONAL/BELOW SEASONAL
 - ABOVE SEASONAL/SEASONAL
 - ABOVE SEASONAL/ABOVE SEASONAL
 - ABOVE SEASONAL/BELOW SEASONAL
 - BELOW SEASONAL/SEASONAL
 - BELOW SEASONAL/ABOVE SEASONAL
 - BELOW SEASONAL/BELOW SEASONAL
- CLOUD COVER/SOLAR RADIATION LAG 1 PERIOD
 - SEASONAL/SEASONAL
 - SEASONAL/ABOVE SEASONAL
 - SEASONAL/BELOW SEASONAL
 - ABOVE SEASONAL/SEASONAL
 - ABOVE SEASONAL/ABOVE SEASONAL
 - ABOVE SEASONAL/BELOW SEASONAL
 - BELOW SEASONAL/SEASONAL
 - BELOW SEASONAL/ABOVE SEASONAL
 - BELOW SEASONAL/BELOW SEASONAL

⋮

FIG. 7B

Weather Forecast Data 515

Year	MA	Data Type	Period1	Period2	Period3	Period4	Period5	Period6
N+1	MA 100	temp.sea	47	47	49	52	54	55
N+1	MA 100	prec.sea	1.00	1.03	1.06	1.05	1.10	1.1
N+1	MA 100	wind_speed.sea	18	14	5	7	11	15
N+1	MA 100	solar_radiation.sea	3.4	4.1	4.2	5.4	4.2	3.7
N+1	MA 100	cloud_cover.sea	75	75	25	0	25	75
N+1	MA 100	cooling_rate.sea	?	?	?	?	?	?
N+1	MA 100	growing_degree_days.sea	24	27	27	25	20	17
:	:	:	:	:	:	:	:	:
N+1	MA 100	temp	48	49	50	53	55	57
N+1	MA 100	prec	1.1	1.05	1.05	1.00	1.15	1.2
N+1	MA 100	wind_speed	16	16	7	5	16	20
N+1	MA 100	solar_radiation	3.5	4.5	4.5	5.5	5.0	4.3
N+1	MA 100	cloud_cover	75	25	75	25	0	25
N+1	MA 100	cooling_rate	0.2	0.3	0.2	0.2	0.2	0.2
N+1	MA 100	growing_degree_days	24	28	26	22	20	16
:	:	:	:	:	:	:	:	:

FIG. 8A

Weather Forecast Data 515

Year	MA	Data Type	Period1	Period2	Period3	Period4	Period5	Period6
N+1	MA100	temp.cat	1	1	1	1	1	1
N+1	MA100	prec.cat	1	1	-1	-1	1	1
N+1	MA100	wind_speed.cat	-1	1	1	-1	1	1
N+1	MA100	solar_radiation.cat	1	1	1	1	1	1
N+1	MA100	cloud_cover.cat	0	-1	1	1	-1	-1
N+1	MA100	cooling_rate.cat	-1	0	0	0	0	0
N+1	MA100	growing_degree_days.cat	0	1	-1	-1	0	-1
:	:	:	:	:	:	:	:	:

FIG. 8B

Reservoir/ Watershed History Database 410	Year	Reservoir MA	Description of Watershed										Recorded Problems	Attempted Solutions	Number of People Served	Size in Acres of Water Supply versus Total Size	Ownership Type	Uses (%)																	
			945					950										991																	
			Terrain (%)					Aquatic Systems (%)										620																	
			945	950	955	960	965	970	975	980	985	987						989	990	991	992	993	994	995	996	997	998	999							
			Grassland	Cropland	Forest	Residential	Industry	Other	Ponds	Wetlands	Streams/ Rivers	Other	Period1	Period2	Period3	Period4	Period5	Period6	Period1	Period2	Period3	Period4	Period5	Period6	Drinking Water	Flood Control	Irrigation	Recreation	Power Plant Cooling	Other					
	:	:	MA 100	58	30	9	2	0	1	30	35	0	OP1 OP6	OP1 OP6	OP1 OP6	OP1 OP6	OP1 OP6	OP1 OP6	OP1 OP6	S2	S8				S1	5,000	8,800/ 9,400	F	50	25	25	0	0	0	
	1997		MA 100	40	48	9	2	0	1	30	45	25	0	OP6	OP6	OP6	OP6	OP6	OP6	OP6	S6	S2				5,325	8,312/ 9,400	F	40	25	25	10	0	0	
	1998		MA 100																																
	1997		MA 101	25	0	45	5	23	4	20	0	80	0	OP4	OP4	OP4	OP4	OP4	OP4							S7	0	950/ 1,500	P	0	0	0	0	100	0
	1998		MA 101	25	0	45	5	23	4	20	0	80	0	OP4	OP4	OP2, OP4	OP2, OP4	OP2, OP4	OP2, OP4	S7	S7	S7				0	900/ 1,500	P	0	0	0	0	100	0	
	1997		MA 135	20	0	30	5	45	0	50	0	50	0		OP6	OP6	OP6	OP6	OP6							S2	S2	5,400/ 7,000	D	70	30	0	0	0	0
	1998		MA 135	20	0	30	3	48	0	40	10	50	0	OP6	OP6	OP6	OP6	OP6	OP6	S2	S2						5,000/ 7,000	D	75	15	0	9	0	1	
	:	:																																	

FIG. 9

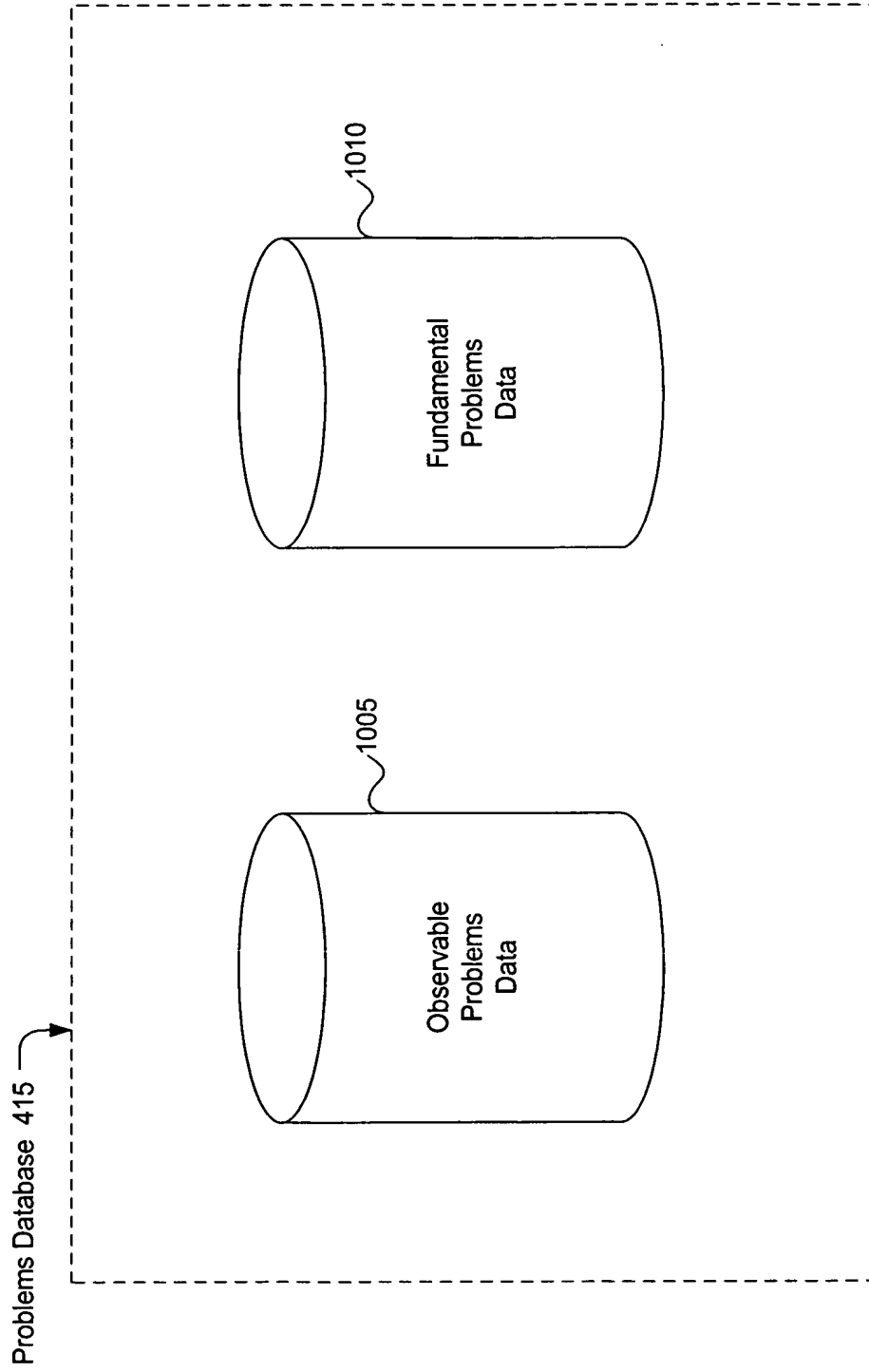


FIG. 10

Observable Problems Data 1005

Observable Problem	Description	Related Fundamental/Observable Problems
OP1	Objectionable Taste and Odor Conditions	OP3, OP6, FP2, FP3, FP4
OP2	Declining Wildlife (e.g., fish)	OP5, OP6, OP8, FP3, FP4
OP3	Shallow Water	FP3
OP4	Decreased Water Clarity	FP3, FP4
OP5	Decreased Water Flow	FP3, FP4
OP6	Excessive Plant Growth	FP1, FP4
⋮	⋮	⋮

FIG. 11

Fundamental Problems Data 1010

1205	1210	1215	1217	1220
Fundamental Problem	Description	Related Weather Causes	Related Terrestrial Vegetation Causes	Possible Solutions (✓)
1225				
FP1	Elevated Plant Nutrient Levels	Excessive watershed runoff due to high precipitation and/or high wind speed; high temperature; high solar radiation and/or reduced cloud coverage increasing water temperature, decreasing water circulation, and increasing plant growth	Early season greenness in agricultural areas; Late season greenness in agricultural areas	<div>S1</div> <div>S2</div> <div>S3</div> <div>S4</div> <div>S5</div> <div>S6</div> <div>S7</div> <div>S8</div> <div>S9</div>
FP2	Elevated Chemical Levels (Geosmin)	High solar radiation, high temperatures, low cooling rate, and/or reduced cloud coverage decreasing water circulation and increasing plant growth	Early season greenness in agricultural areas; Late season greenness in agricultural areas	<div>S1</div> <div>S2</div> <div>S3</div> <div>S4</div> <div>S5</div> <div>S6</div> <div>S7</div> <div>S8</div> <div>S9</div>
FP3	Siltation	Excessive watershed runoff due to high precipitation and/or high wind speed	Early season greenness in agricultural areas; Late season greenness in agricultural areas	<div>S1</div> <div>S2</div> <div>S3</div> <div>S4</div> <div>S5</div> <div>S6</div> <div>S7</div> <div>S8</div> <div>S9</div>
FP4	Thermal Stratification	Warm temperatures in the spring and early summer; High solar radiation, high temperatures, low cooling rate, and/or reduced cloud coverage decreasing water circulation		<div>S1</div> <div>S2</div> <div>S3</div> <div>S4</div> <div>S5</div> <div>S6</div> <div>S7</div> <div>S8</div> <div>S9</div>
:	:	:	:	:
:	:	:	:	:
:	:	:	:	:

FIG. 12

Solutions Database 420													
1305		1310		1315		1320		1325		1330		1335	
Type of Solution	Solution	Description	Term	Economic Impact	Political Impact	Environmental Impact							
Physical	S1	Adjust Water Level	short	low	high	medium							
	S2	Cut Weeds	short	medium	low	low							
	S3	Dredge	long	high	low	low							
	S4	Aeration (Destratification)	short	medium	low	low							
	S5	Alter Adjacent Land Use	long	high	high	high							
	S6	Disinfect (Water Treatment)	long	high	low	low							
	S7	Filter (Water Treatment)	long	high	low	low							
	S8	Apply different types of fertilizer to crops	short	low	high	medium							
	S9	Apply fertilizer at time sensitive times relating to terrestrial greenness	short	low	high	low							
Chemical	S10	Introduce Herbicides	short	medium	high	high							
Biological	S11	Introduce Fish	long	medium	low	low							
:	:	:	:	:	:	:							
:	:	:	:	:	:	:							

FIG. 13

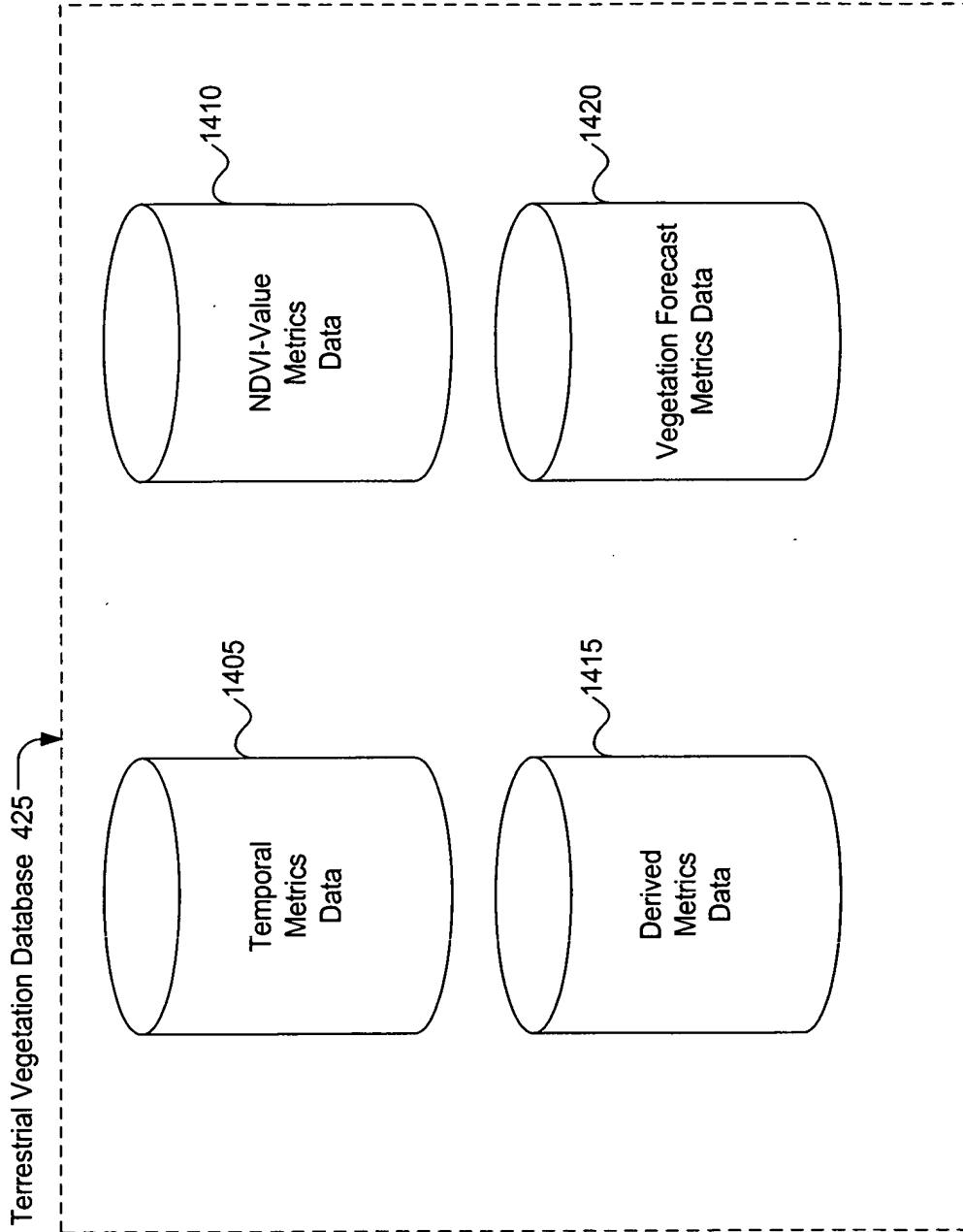


FIG. 14

Temporal Metrics Data 1405

Year	MA	Temporal Metrics 1505																	
		1510						1515						1520					
		Time of Onset of Greenness 620						Time of End of Greenness 620						Duration of Greenness 620					
		Period1	Period2	Period3	Period4	Period5	Period6	Period1	Period2	Period3	Period4	Period5	Period6	Period1	Period2	Period3	Period4	Period5	Period6
1997	MA100	80	81	80	88	86	81	250	255	252	260	245	250	70	74	72	62	59	69
1998	MA100	75	77	80	85	85	83	239	244	266	250	250	249	64	67	86	65	65	66
1997	MA101	92	93	101	101	100	95	251	250	251	249	245	250	59	57	50	48	45	55
1998	MA101	101	101	115	115	103	97	245	250	250	246	245	250	44	49	35	31	42	53

1530

1535

FIG. 15

NDVI-Value Metrics Data 1410

Year	MA	NDVI-Value Metrics											
		1610						1615					
		Value of Onset of Greenness 620						Value of End of Greenness 620					
1630	1635	Period1	...	...	...	...	...	Period1	...	...	...	Period1	...
		Period2	...	...	...	...	...	Period2	...	...	...	Period2	...
		Period3	...	...	...	...	...	Period3	...	...	...	Period3	...
		Period4	...	...	...	...	...	Period4	...	...	...	Period4	...
		Period5	...	...	...	...	...	Period5	...	...	...	Period5	...
		Period6	...	...	...	...	...	Period6	...	...	...	Period6	...
1997	MA100	120	25	22	19	126	115	18	20	19	17	12	20
1998	MA100	115	17	120	19	125	110	20	120	18	20	17	16
1997	MA101	132	33	50	17	30	25	130	18	20	19	15	16
1998	MA101	145	51	130	20	25	125	135	19	25	20	16	17
:	:	:	:	:	:	:	:	:	:	:	:	:	:
		Value of Maximum NDVI 620						Range of NDVI 620					
		Period1	...	...	...	...	...	Period1	...	...	...	Period1	...
		Period2	...	...	...	...	...	Period2	...	...	...	Period2	...
		Period3	...	...	...	...	...	Period3	...	...	...	Period3	...
		Period4	...	...	...	...	...	Period4	...	...	...	Period4	...
		Period5	...	...	...	...	...	Period5	...	...	...	Period5	...
		Period6	...	...	...	...	...	Period6	...	...	...	Period6	...

FIG. 16

Derived Metrics Data 1415

Year	MA	Derived Metrics											
		1710						1720					
		Accumulated NDVI 620						Rate of Green-up 620					
1730	1735	Period1	Period2	Period3	Period4	Period5	Period6	Period1	Period2	Period3	Period4	Period5	Period6
		1600	1600	1620	1620	1620	1600	2.2	2.2	2.1	2.0	2.0	2.0
		1620	1590	1600	1550	1600	1590	2.2	2.2	1.9	2.2	2.0	2.0
		1560	1570	1590	1600	1600	1590	2.0	2.2	1.9	2.0	1.9	2.2
		1590	1600	1610	1590	1600	1600	2.0	2.1	2.0	1.9	2.0	2.1
		1590	1600	1610	1590	1600	1600	2.0	2.1	2.0	1.9	2.0	2.1
1725	1720	Period1	Period2	Period3	Period4	Period5	Period6	Period1	Period2	Period3	Period4	Period5	Period6
		150	150	150	150	150	150	-1.7	-1.7	-1.7	-1.7	-1.7	-1.7
		150	150	150	150	150	150	-1.6	-2.1	-1.8	-1.8	-1.7	-1.7
		150	150	150	150	150	150	-1.7	-1.8	-1.7	-1.7	-1.8	-2.0
		152	153	150	150	150	150	-1.7	-1.7	-1.7	-1.7	-1.8	-1.8
		150	150	150	150	150	150	-1.7	-1.7	-1.7	-1.7	-1.8	-1.8
1730	1735	150	150	150	150	150	150	150	150	150	150	150	150
1730	1735	150	150	150	150	150	150	150	150	150	150	150	150
1730	1735	150	150	150	150	150	150	150	150	150	150	150	150
1730	1735	150	150	150	150	150	150	150	150	150	150	150	150
1730	1735	150	150	150	150	150	150	150	150	150	150	150	150
1730	1735	150	150	150	150	150	150	150	150	150	150	150	150

FIG. 17

Vegetation Forecast Metrics Data 1420

605		610		1505				1520				1525				1610				1615				1620				1625				1710				1715				1720				1725																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
Year		MA		Temporal Metrics				NDVI- Value Metrics				Derived Metrics				Rate of Green-up				Rate of Senescence				Mean Daily NDVI																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
				Time of Onset of Greenness		Duration of Greenness		Time of Maximum Greenness		Value of Onset of Greenness		Value of End of Greenness		Value of Maximum NDVI		Range of NDVI		Accumulated NDVI		Rate of Green-up		Rate of Senescence		Mean Daily NDVI																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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FIG. 18

Government Compliance Database 430 →

Type	State/Locality	MA(s) Applicable	Permit Required for Solution (✓)									
			S1	S2	S3	S4	S5	S6	S7	S8	S9	...
Federal	-	MA100 - MA1780								✓		...
State	Alabama	MA201 - MA215			✓		✓	✓	✓	✓		...
	Alaska	MA100 - MA109			✓		✓	✓	✓	✓		...
	Arkansas	MA390 - MA415			✓		✓	✓	✓	✓	✓	...
	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
Local	Allegheny County, PA	MA129	✓		✓		✓		✓	✓		...
	Awacny County, MD	MA909			✓		✓	✓	✓	✓	✓	...
	Buck County, PA	MA128	✓		✓		✓	✓	✓	✓	✓	...
	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

FIG. 19

Background Modules 315

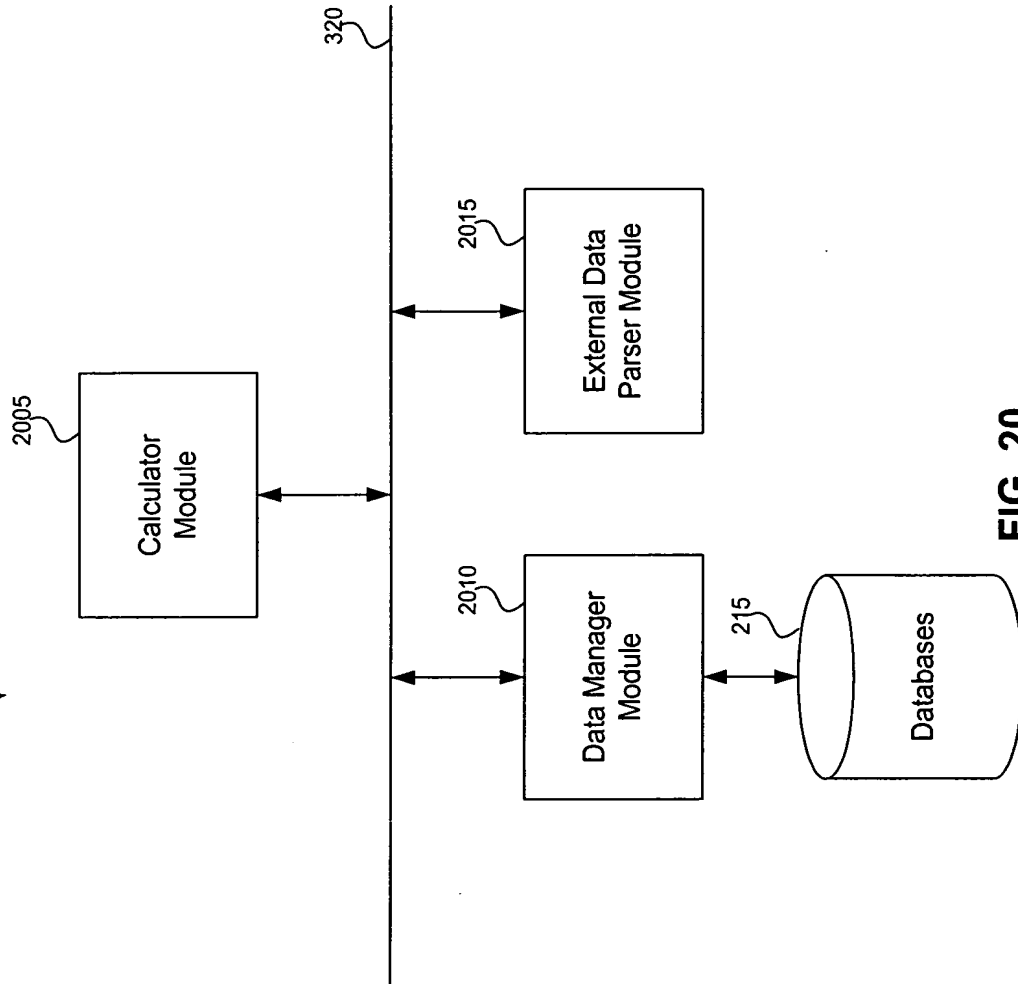


FIG. 20

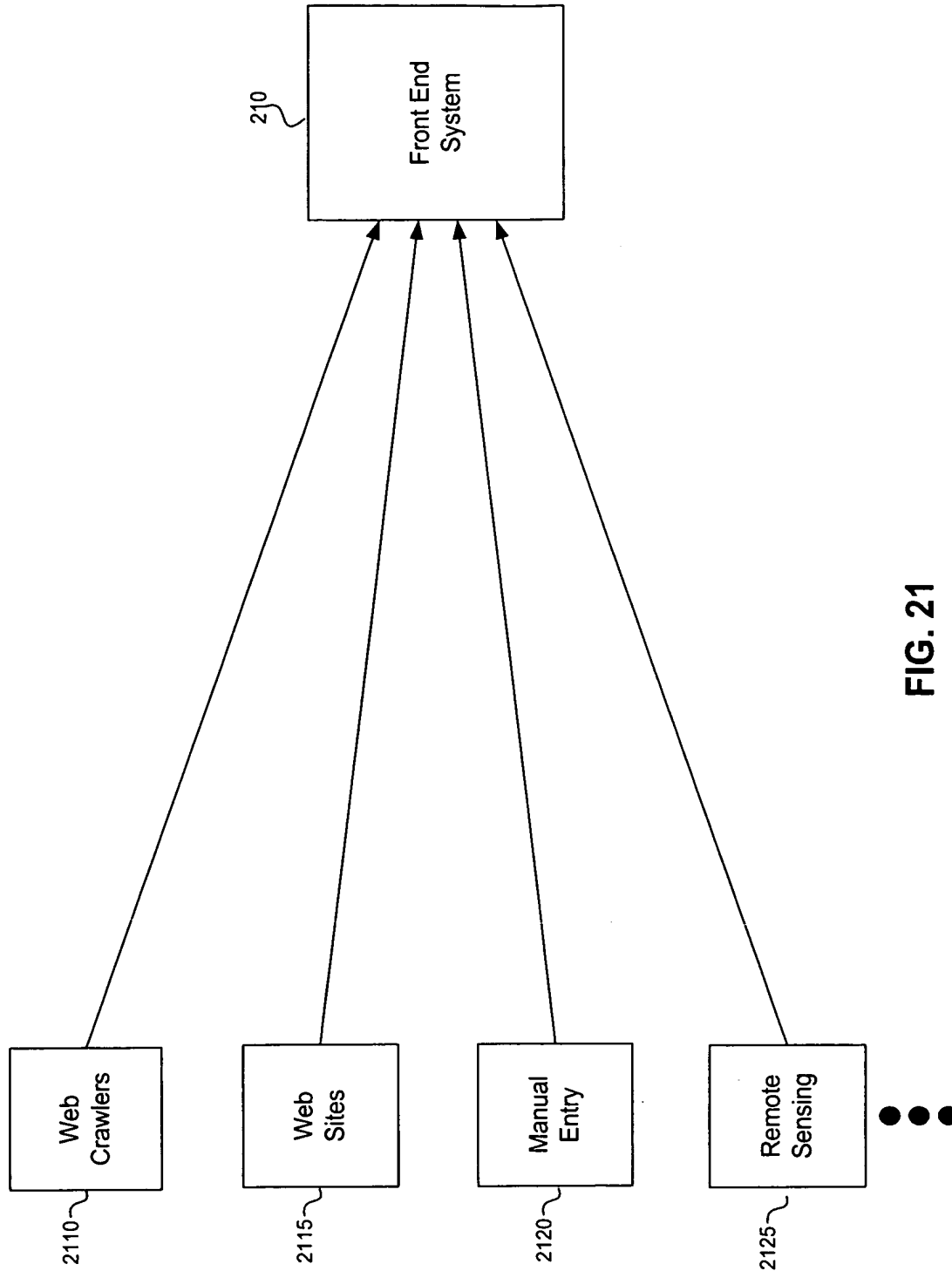


FIG. 21

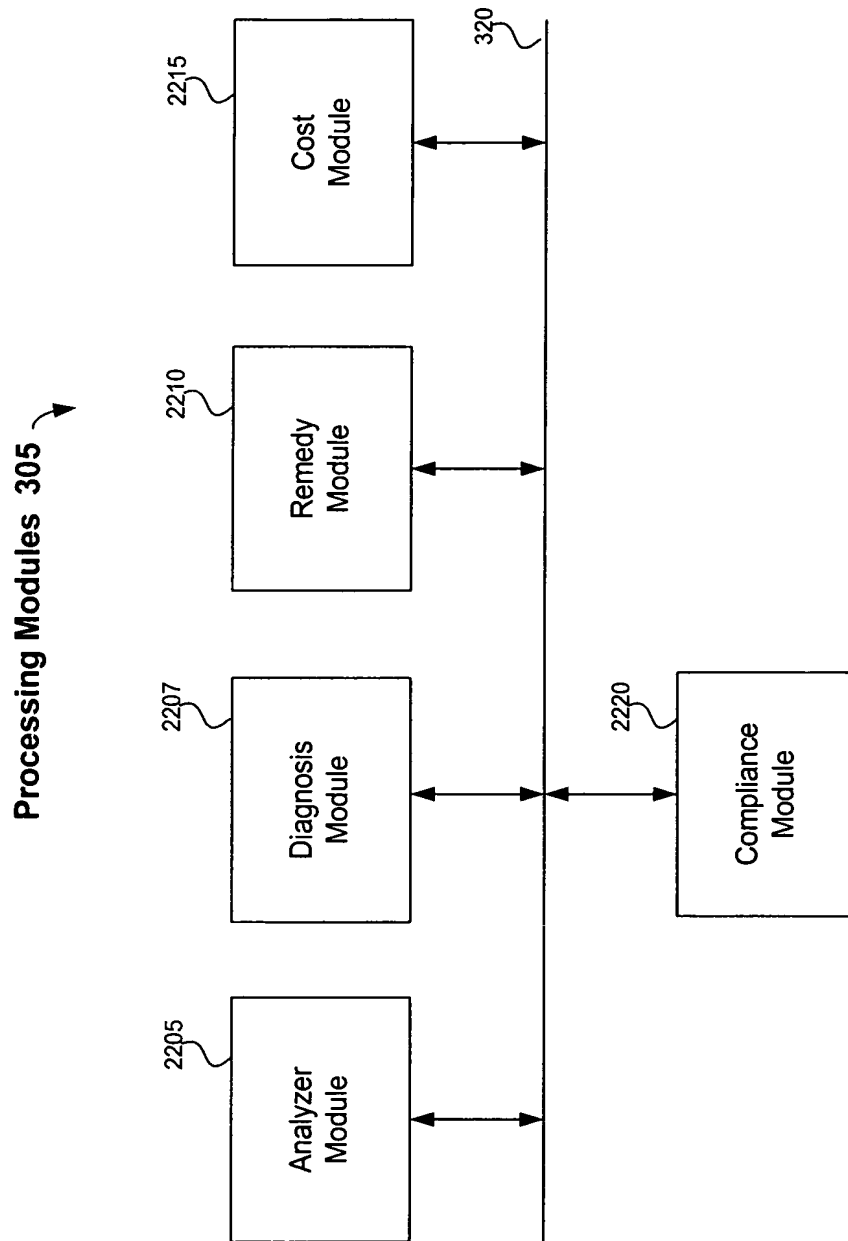


FIG. 22

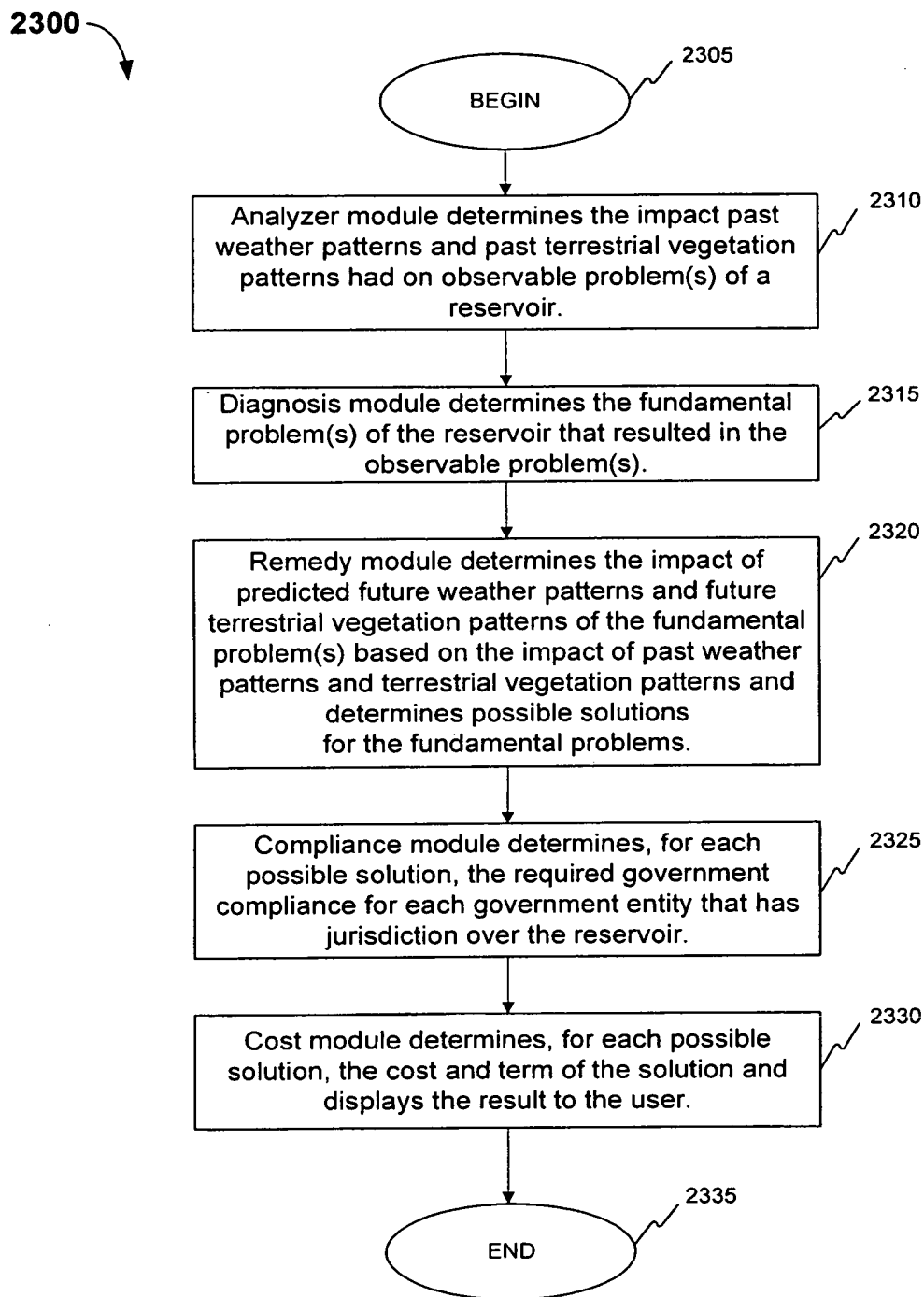


FIG. 23

2400

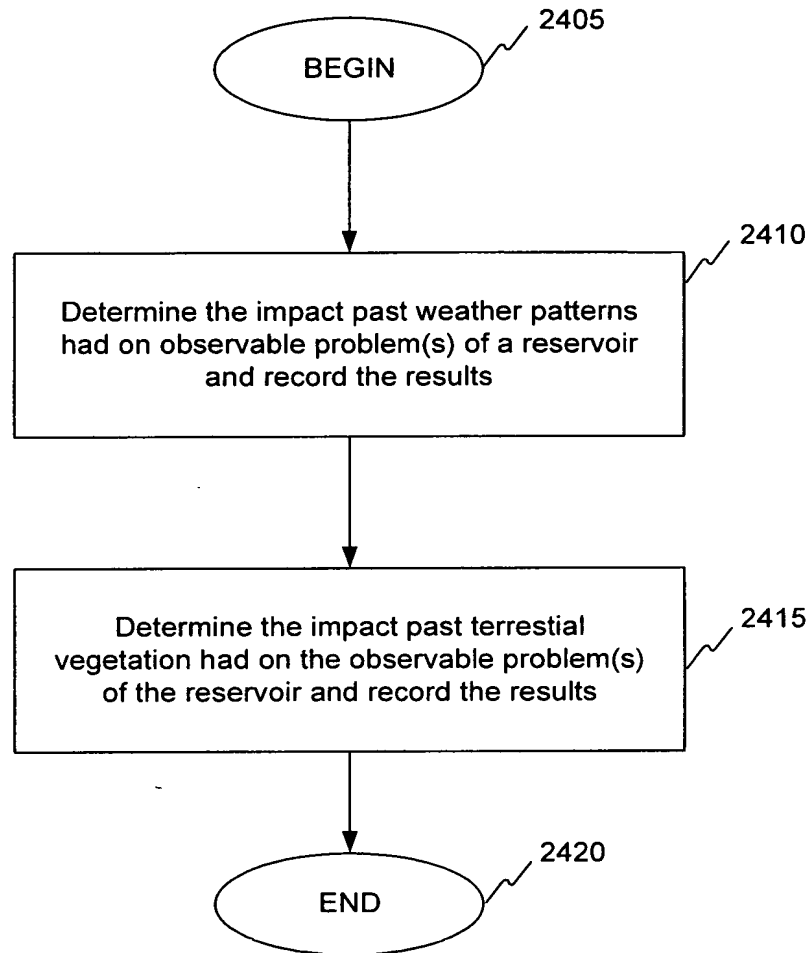


FIG. 24

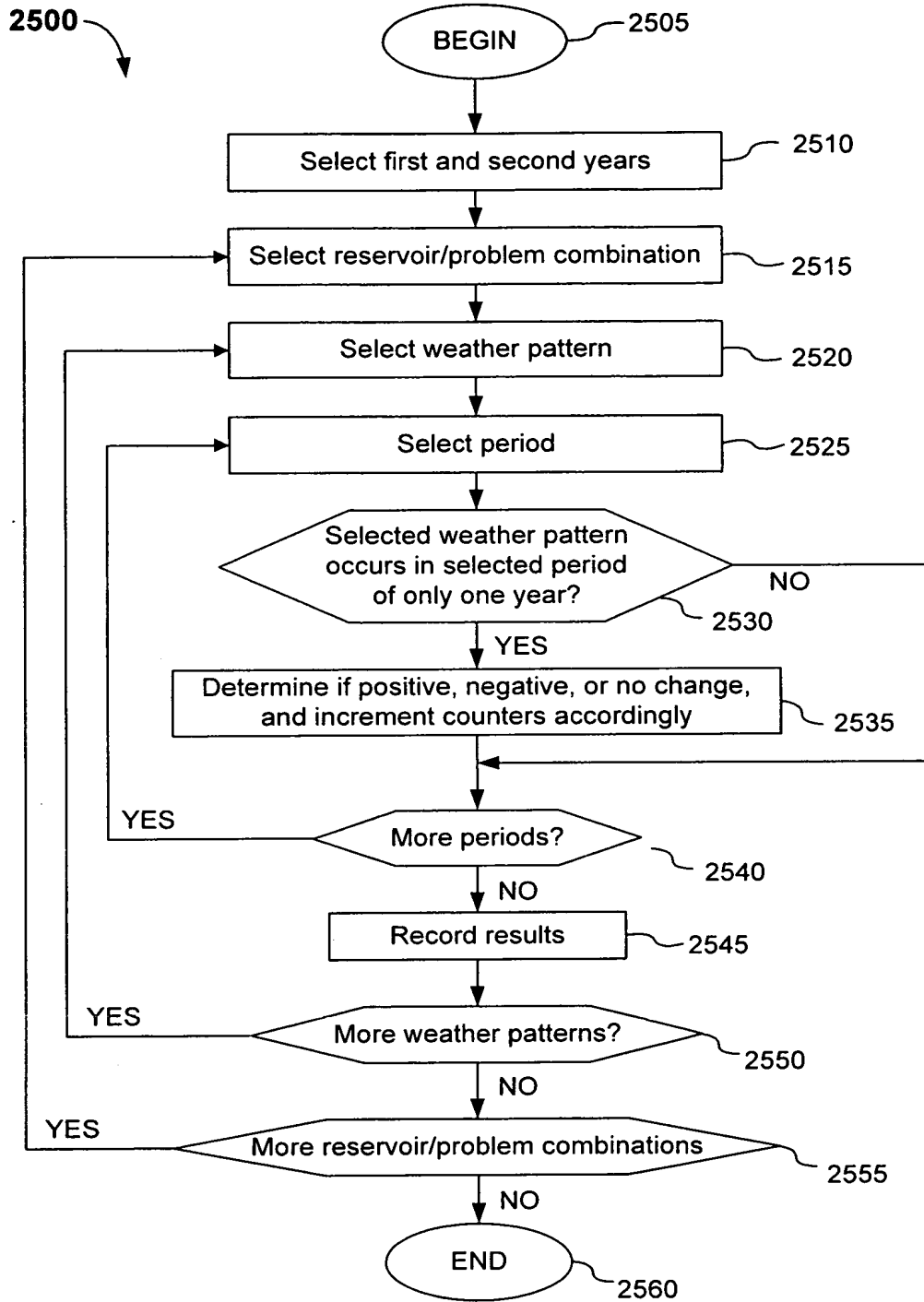


FIG. 25

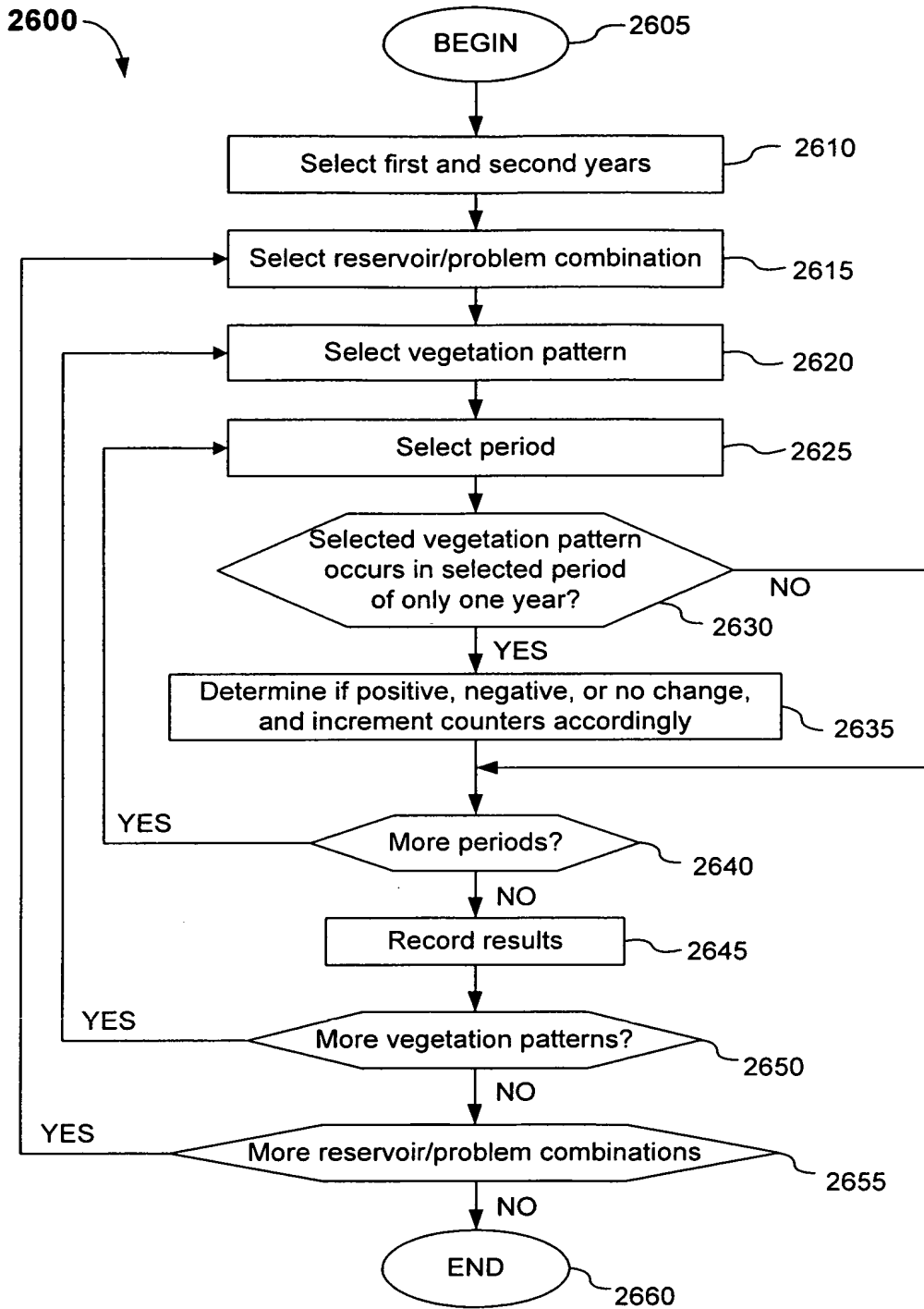


FIG. 26

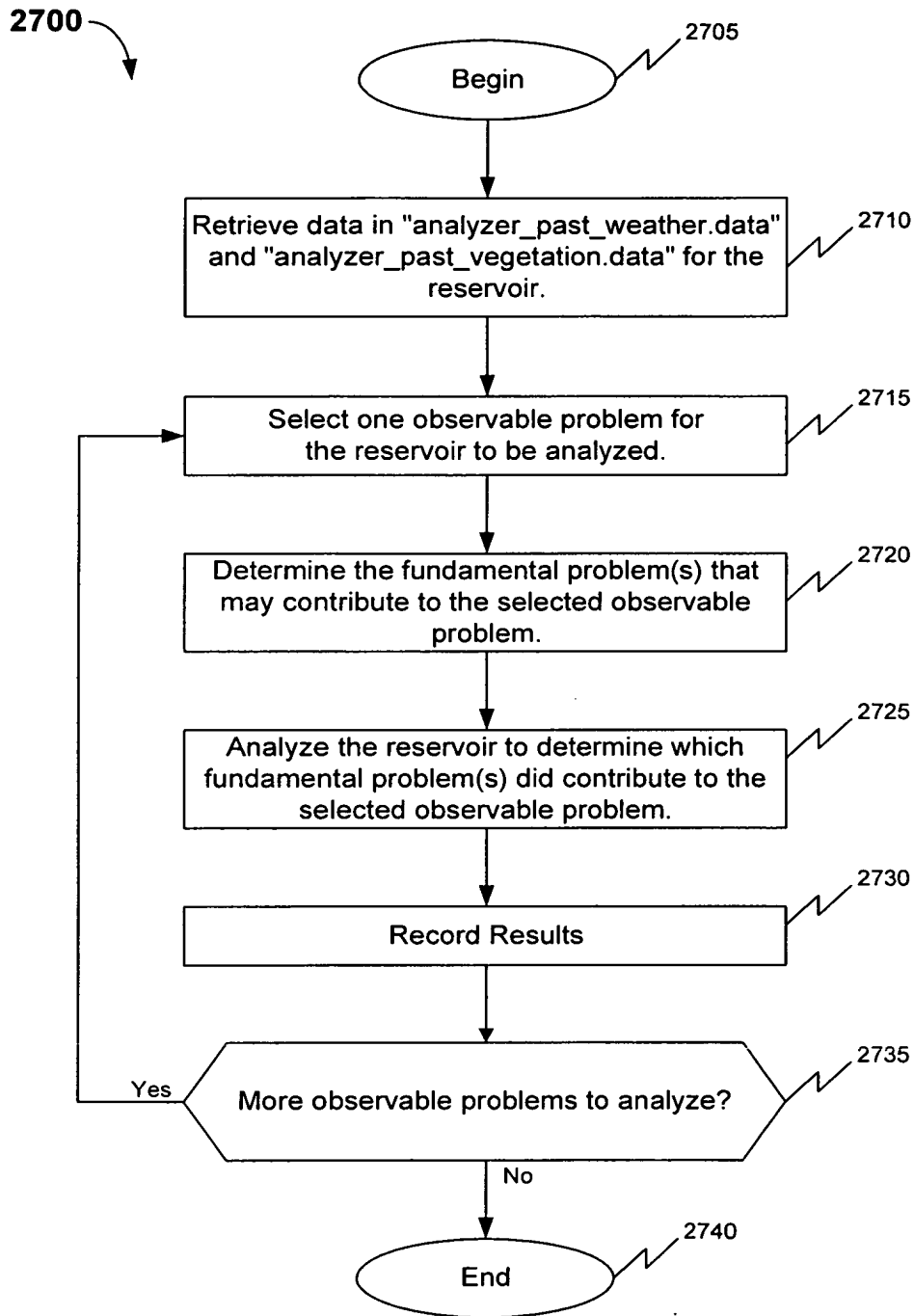


FIG. 27

2800

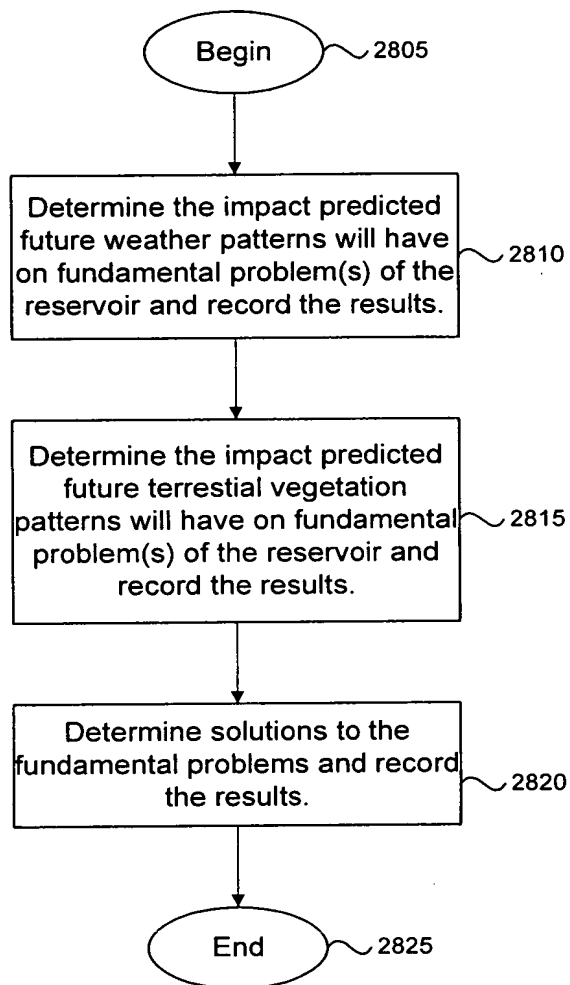


FIG. 28

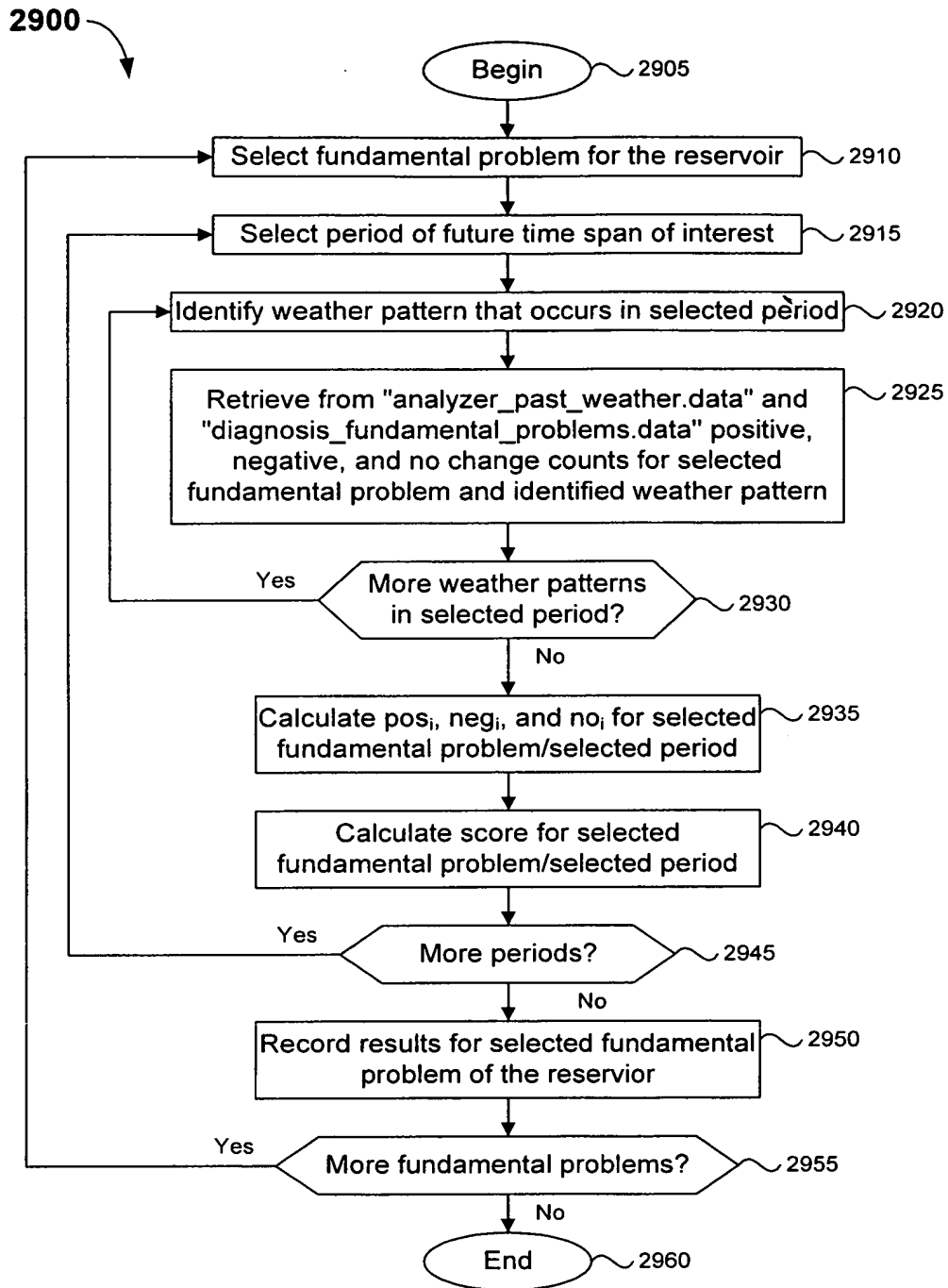


FIG. 29

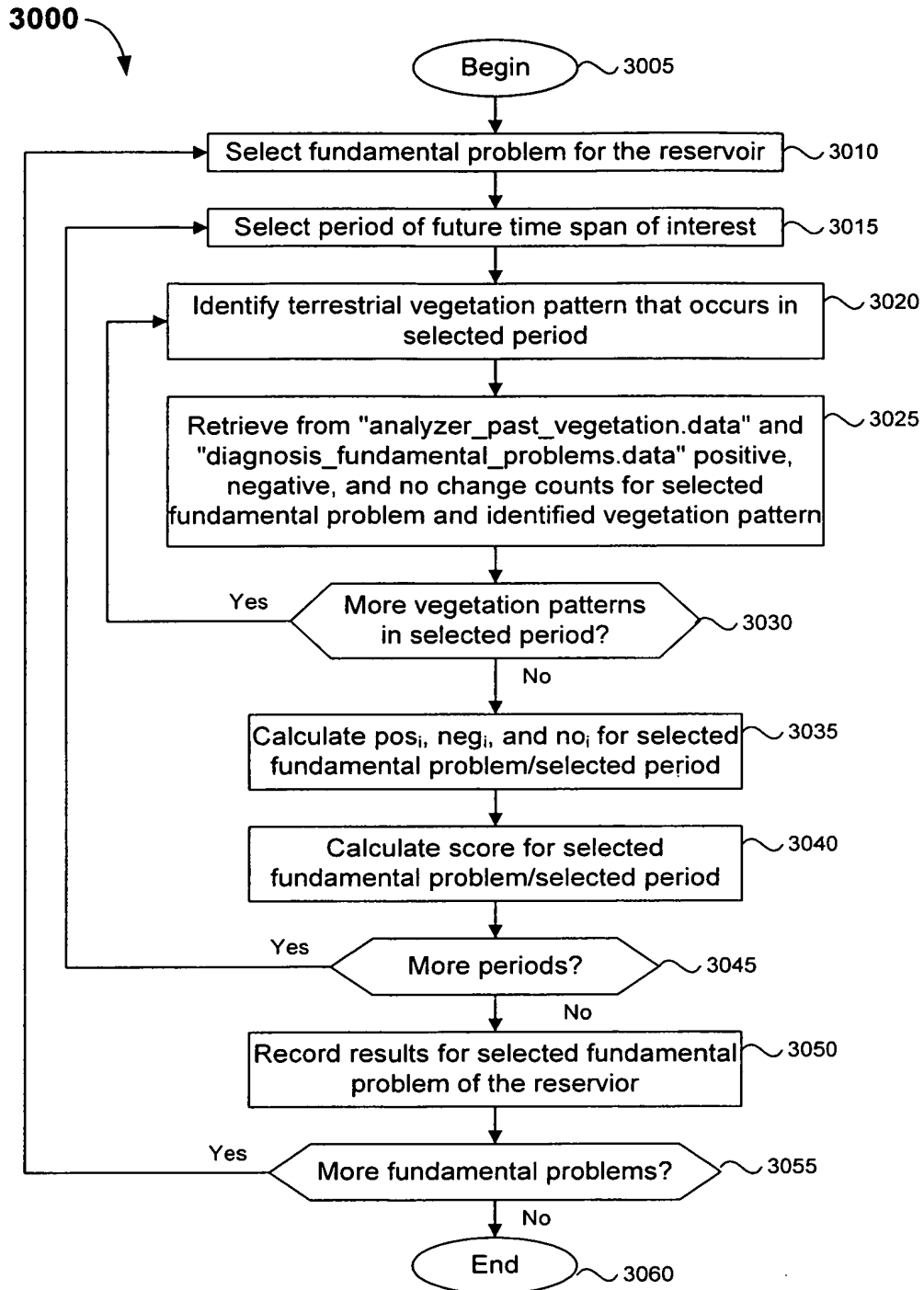


FIG. 30

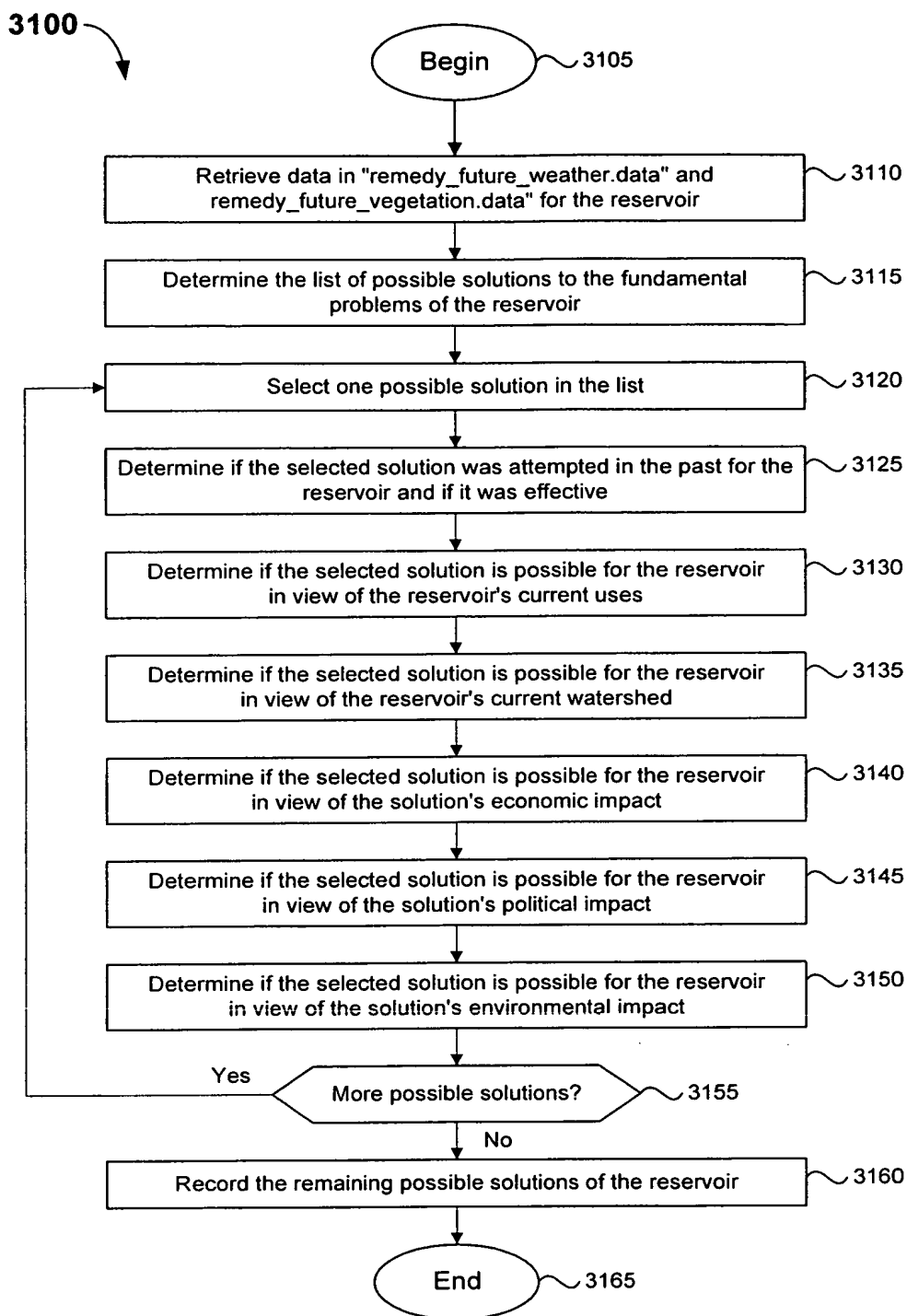


FIG. 31

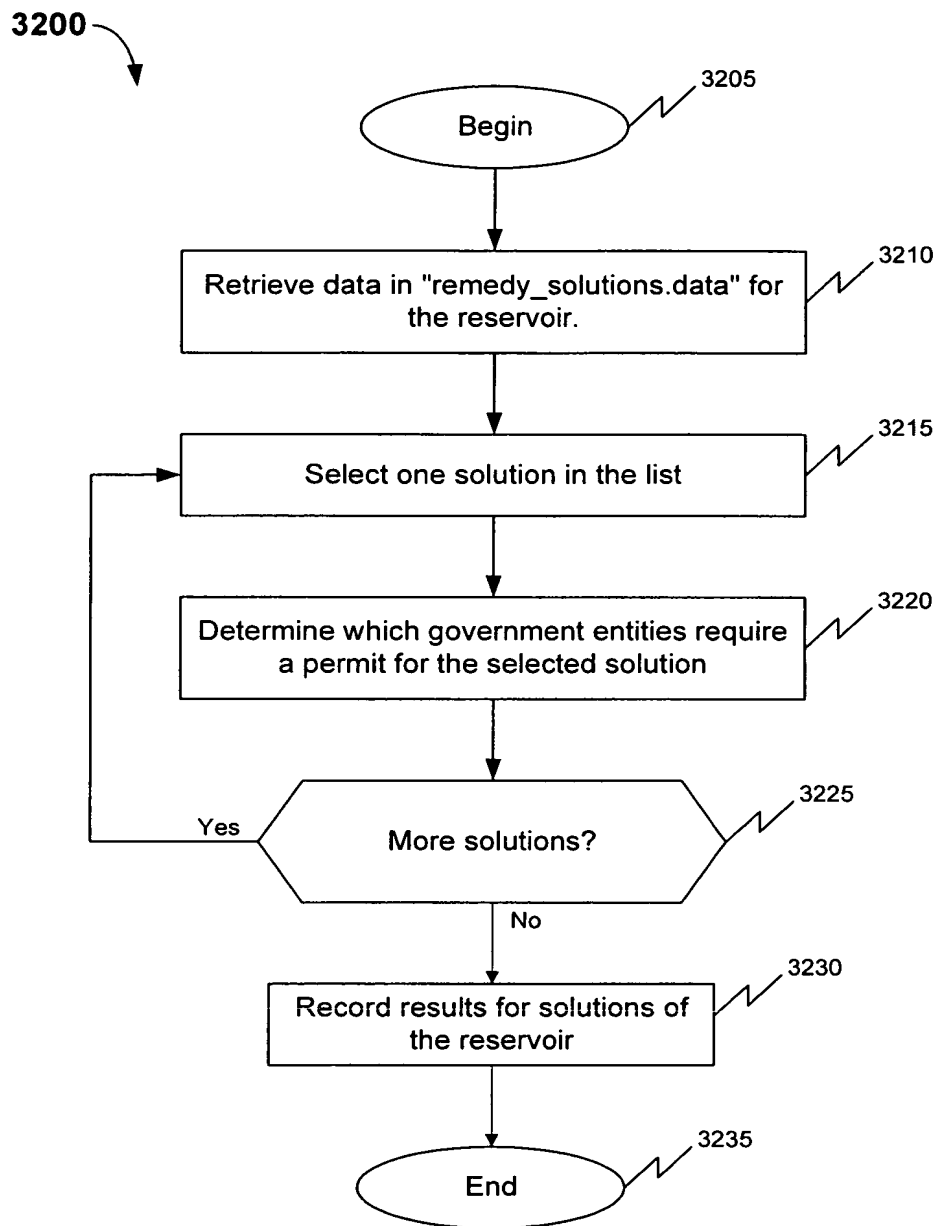


FIG. 32

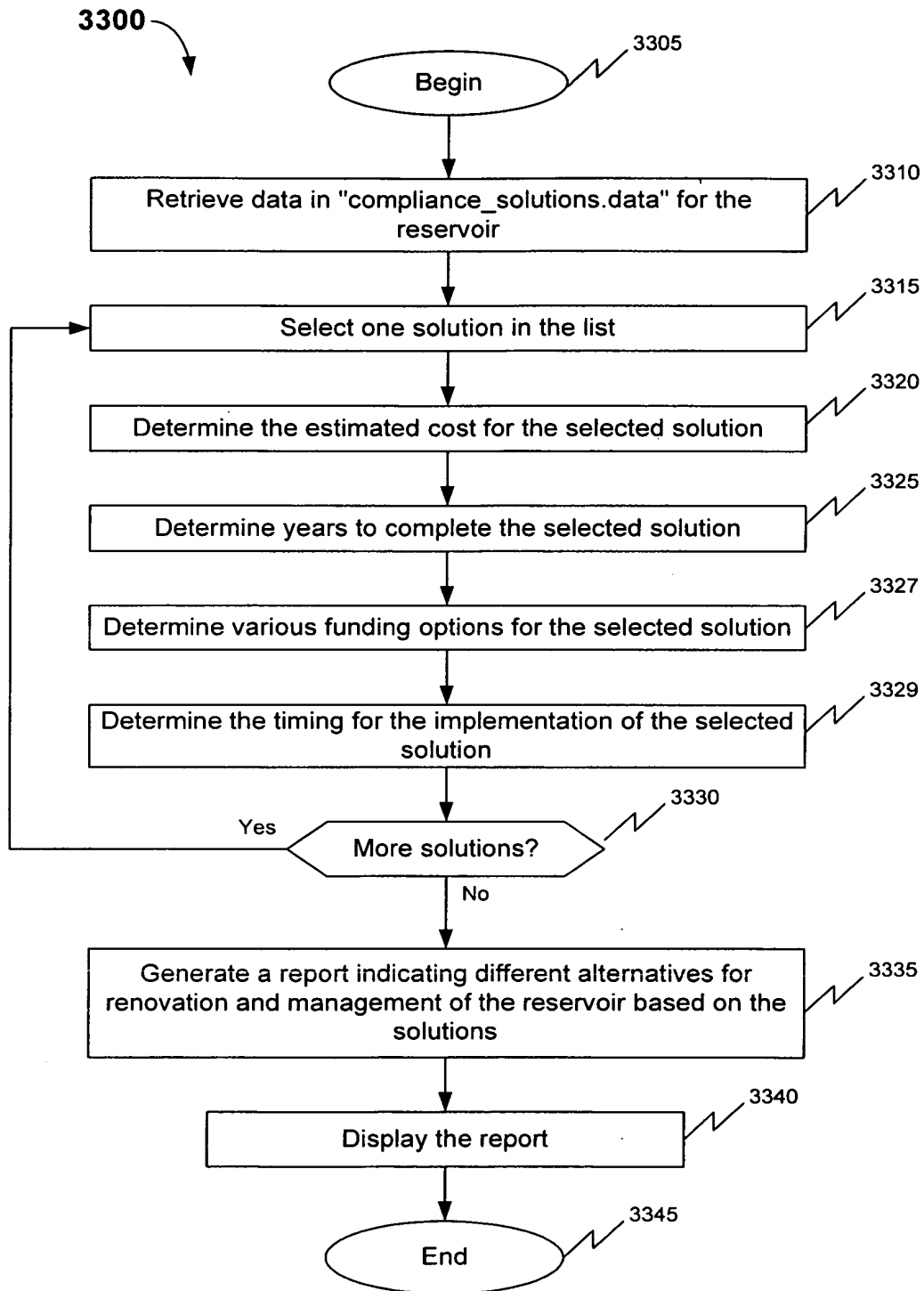


FIG. 33

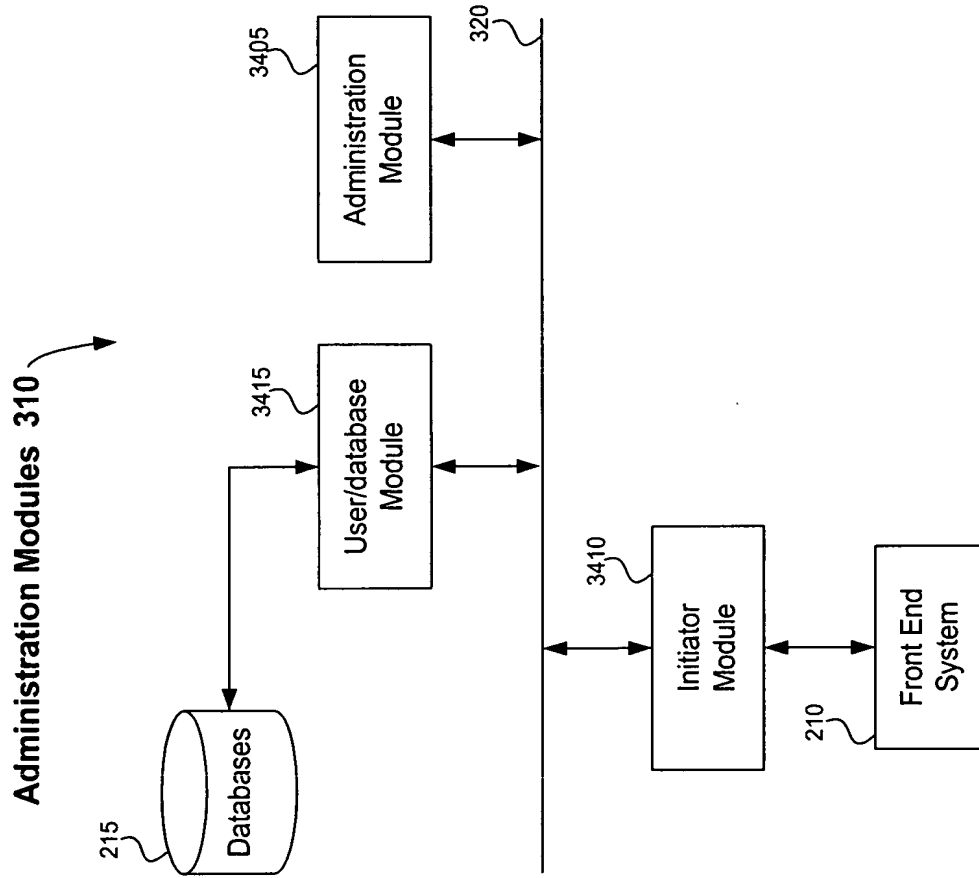


FIG. 34

Computer System 3500

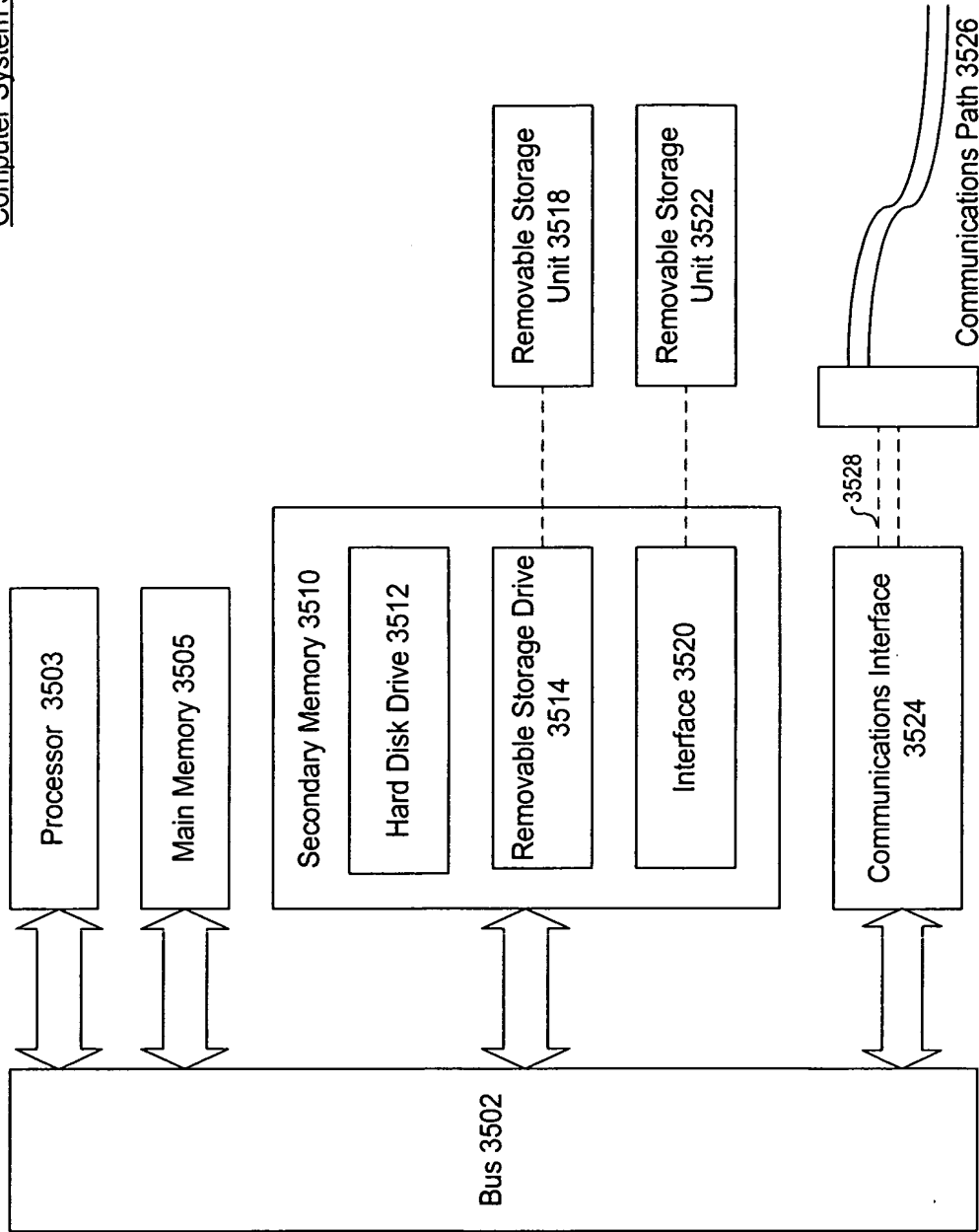


FIG. 35

CLIENT

SERVER

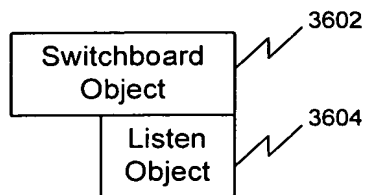


FIG. 36A

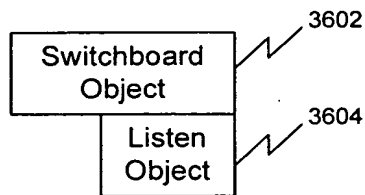


FIG. 36B

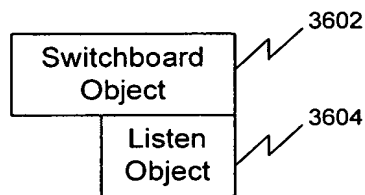


FIG. 36C

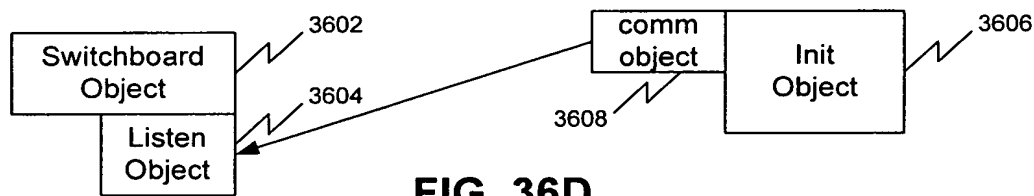


FIG. 36D

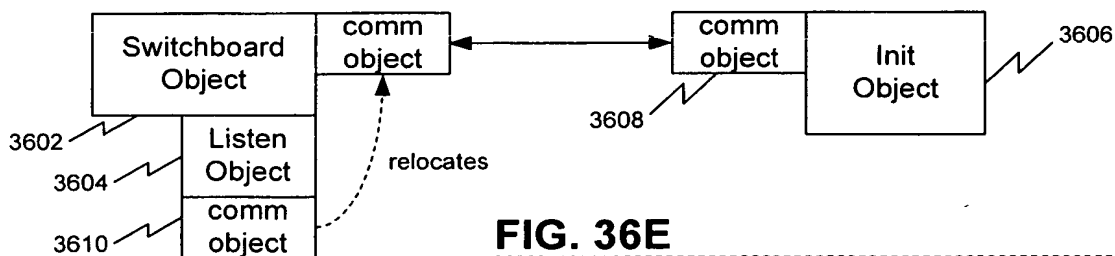


FIG. 36E

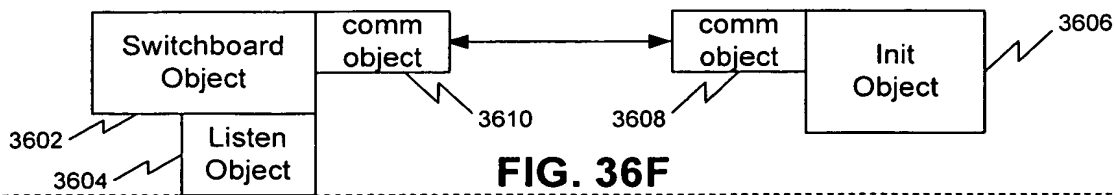


FIG. 36F

